

## CLAIMS

What is claimed is:

**1. A remote cordless internet telephony device comprising:**

**a remote cordless telephone comprising a remote cordless telephone handset and a remote cordless telephone base unit;**

**said remote cordless telephone handset comprising a microphone, a speaker, a dialpad, a handset rf transceiver for communication with a base unit transceiver, circuitry for translating audio information input to said microphone to an rf signal as an input to said handset rf transceiver, circuitry for translating input from said handset rf transmitter means to an electrical signal as an input to said speaker, and circuitry for translating a keypress on said dialpad into a DTMF tone as an input to said handset rf transmitter;**

**said remote cordless telephone base unit connected to a computer, comprising a base unit rf transceiver for communication with said handset rf transceiver, means for determining whether said communication represents a DTMF signal or audio information, circuitry for translating communications from said handset rf transceiver into digital form for transmission to a computer, circuitry for receiving digital data from said computer and translating said digital data to a form suitable for transmission to said base unit rf transceiver, and means for transmitting signals between said base unit rf transceiver and said computer;**

and a computer having a connection to a digital telephony network and a connection to said remote cordless telephone base unit, said computer executing software programmed to

accept data from said remote cordless telephone base unit,  
transmit audio information input from said remote cordless telephone base unit to  
5 said digital telephony network,  
receive audio information input from said digital telephony network, convert it to a  
form suitable for said remote cordless telephone base unit and transmit it to said  
cordless telephone base unit;

whereby one user may carry on a voice conversation with a second user over said digital  
10 telephony network.

2. A device as in claim 1 having an effective range between said remote cordless handset  
and said remote cordless telephone base of more than twelve feet.

3. A device as in claim 1 having an effective range between said remote cordless handset  
and said remote cordless telephone base of more than 400 feet.

15 4. A device as in Claim 1 wherein said connection between said computer and said remote  
cordless telephone base unit comprises an RS232 for the ring and status signal and a  
computer sound card.

5. A device as in Claim 1 wherein said connection between said computer and said remote  
cordless telephone base unit comprises a Universal Serial Bus for the ring and status

signal and a computer sound card.

6. A device as in Claim 1 wherein said software is programmed to detect the presence of the remote cordless telephone on any port, providing ready status where "ready" is defined as either (1) on hook in base or (2) out of base, not in use with radios and security codes synchronized.

5 7. A device as in Claim 1 wherein said remote cordless base unit comprises circuits separated into isolated millivolt level audio transmit and receive.

8. A device as in Claim 1 wherein ringing information operates at 3vdc, and on a separate communication line from the audio signal.

10 9. A device as in Claim 1 wherein said software is compatible with telephony software utilized by Internet telephony providers so as to allow emulation of a cordless POTS telephone call over the Internet.

10. A device as in Claim 9 wherein said telephony software is based on Dialpad (TM) technology.

15 11. A device as in Claim 9 wherein said telephony software is based on Microsoft Netmeeting (TM) technology.

12. A device as in Claim 9 wherein said telephony software is based on ITXC WebTalk

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